

INDUSTRIAL AUTOMATION PRODUCT

IC670ALG310

GE Fanuc eight-channel isolated analog voltage output module

Eight 0-10 V or +/-10 V analog output commands

IDENTITY	VERIFIED VALUE
Manufacturer	GE
System family	GE Fanuc Field Control distributed I/O
Part number	IC670ALG310
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named GE product record.

PARAMETER	TECHNICAL VALUE
Catalog number	IC670ALG310
Output channels	8
Output grouping	Two isolated groups of four
Voltage ranges	+/-10 V; 0 to 10 V
Digital resolution	14 bits
Output overrange	Approximately 10.25 V
Analog output data	0 to 8 words
Status data	0 to 24 bits
Fault-clear data	0 to 16 bits
Default output behavior	Zero or hold last state
Required BIU revision	2.0 or later
Isolation	250 V AC continuous; 1500 V AC for 1 minute

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Separate user output supply
Companion hardware	Two groups of voltage-driven field devices
Field connection	Field Control BIU revision 2.0 or later
Primary system function	Provides eight isolated voltage outputs
Controlled acceptance duty	isolated analog voltage command generation field station

3

System Role and Architecture

Eight 0-10 V or +/-10 V analog output commands

FUNCTION 1

Provides eight isolated voltage outputs

FUNCTION 2

Offers bipolar and unipolar 10 V ranges

FUNCTION 3

Uses 14-bit digital conversion

FUNCTION 4

Reports user-power, calibration and range alarms

Matched system components

- Separate user output supply
- Two groups of voltage-driven field devices
- Field Control BIU revision 2.0 or later
- Configured analog-output and alarm-clear data

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Separate user output supply
Companion hardware	Two groups of voltage-driven field devices
Field connection	Field Control BIU revision 2.0 or later
Primary system function	Provides eight isolated voltage outputs
Controlled acceptance duty	isolated analog voltage command generation field station

4

Applications and Engineering Context

isolated analog voltage command generation
field station

Provides eight isolated voltage outputs

Remote I/O cabinet integration

Offers bipolar and unipolar 10 V ranges

Installed-base module renewal

Uses 14-bit digital conversion

Controlled commissioning and diagnostics

Reports user-power, calibration and range alarms

TECHNICAL NOTE

Confirm group isolation, user power, bipolar/unipolar range, scaling and output-default behavior before connecting field loads.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC670ALG310 / IC670ALG310 recorded
Physical interface	Separate user output supply
Companion check	Two groups of voltage-driven field devices
Functional proof	Provides eight isolated voltage outputs
Application test	isolated analog voltage command generation field station

5

Engineering Precautions

- 1 Verify the complete IC670ALG310 catalog marking and assigned Field Control position before work.
- 2 Place the connected isolated analog voltage command generation process in its approved maintenance state before disturbing the station.
- 3 Isolate BIU and field power, then confirm a safe condition at the IC670ALG310 terminal block.
- 4 Label and record channel conductors, returns, shields and external supply wiring before disconnecting any conductor from IC670ALG310.
- 5 Use ESD controls and protect the module connector, terminal block keying and exposed electronics.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC200TBM002	Related GE product	View IC200TBM002 page
IC200MDL940	Related GE product	View IC200MDL940 page
IS215UCVEH2AE	Related GE product	View IS215UCVEH2AE page
IS210AEAAH1BKE	Related GE product	View IS210AEAAH1BKE page
IC200BEM002	Related GE product	View IC200BEM002 page
IC693MDL655	Related GE product	View IC693MDL655 page
IC200PWR102	Related GE product	View IC200PWR102 page
DS200TBQAG1ABB	Related GE product	View DS200TBQAG1ABB page

MANUFACTURER SOURCE RECORD

GE Fanuc Field Control Distributed I/O and Control System I/O Modules User's Manual
GFK-0826J, June 2002

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

